

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number  
WO 2005/082030 A3(51) International Patent Classification<sup>7</sup>: C12Q 1/68,  
G06F 17/00AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,  
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,  
ZA, ZM, ZW.(21) International Application Number:  
PCT/US2005/005996(22) International Filing Date:  
24 February 2005 (24.02.2005)

(25) Filing Language: English

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

(30) Priority Data:  
60/547,526 25 February 2004 (25.02.2004) US(71) Applicant (for all designated States except US): AVALON  
PHARMACEUTICALS [US/US]; 20358 Seneca Meadow  
Parkway, Germantown, MD 20876 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): STROVEL, Jeffrey,  
W. [US/US]; 14622 Keeneland Circle, North Potomac,  
MD 20878 (US). BOL, David [US/US]; 8904 Brink  
Road, Gaithersburg, MD 20882 (US). YOUNG, Paul, E.  
[US/US]; 11205 Hawhill End, Potomac, MD 20854 (US).(74) Agents: GRANT, Alan, J. et al.; Carella, Byrne, Bain,  
Gilfillan, Cecchi Stewart & Olstein, 5, Becker Farm Road,  
Roseland, NJ 07068 (US).(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

## Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

## Published:

— with international search report  
— before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments(88) Date of publication of the international search report:  
5 January 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/082030 A3

(54) Title: CHEMO-CENTRIC SELECTION OF DISEASE-RELATED GENETIC PROFILES

(57) Abstract: Methods for the identification of disease-related gene sets and expression profiles, based on common chemical modulation using a specific chemical compound are disclosed.